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## Claims:

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1. A pharmaceutical formulation in the form of an ordered mixture for respiratory administration comprising a drug and maltitol excipient.

- 2. A formulation according to claim 1 where the excipient has not spherical shape.
- 3. A formulation according to any preceding claim, wherein the coarse particles may have a diameter of over 20  $\mu m$ .
- 4. A formulation according to any preeceding claim, wherein the coarse particles have a diameter of  $60\text{-}800~\mu m$ .
- 5. A formulation according to any preceeding claim, wherein the drug is selected from β2adrenoreceptor agonists for example salbutamol, terbutaline, rimiterol, fenoterol, 15 reproterol, adrenaline, pirbuterol, isoprenaline, orciprenaline, bitolterol, salmeterol, formoterol, clenbuterol, procaterol, broxaterol, picumeterol, TA-2005 and malbuterol and salts and hydrastes of such salts; anticholinergic bronchodilators for example ipratropium bromide, oxitropium and its salts and tiotropium and its salts; glucocorticosteroids for example beclomethasone, fluticasone, budesonide, tipredane, dexamethasone, 20 betamethasone, fluocinolone, triamcinolone acetonide, flunisolide, mometasone and 16, 17-acetals of pregnane derivatives, for example rofleponide palmitate and ciclesonide and derivatives of these steroids; anti-allergic medicaments for example sodium cromoglycate and nedocromil sodium; leukotriene antagonists for example, zafirlukast, montelukast, pranlukast, zileuton antihistamines for example terfenadine, cetirizine, loratadine and 25 azelastine; antibiotics, -; pain control substances, for example morphine, codeine, pethidine.
- 6. A formulation according to any preceeding claim, wherein the drug is selected from formoterol, terbutaline or budesonide and salts and hydrates thereof and hydrates of salts and a formoterol/budesonide combination e.g Symbicort®.
  - 7. A formulation according to any preceeding claim, wherein a drug combination is selected from formoterol/budesonide; formoterol/fluticasone; formoterol/mometasone; salmeterol/fluticasone; formoterol/tiotropium salts; zafirlukast/formoterol, zafirlukast/budesonide; montelukast/formoterol; montelukast/budesonide; loratadine/montelukast and loratadine/zafirlukast and derivatives and salts and hydrates of such derivatives and salts.

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- 8. A method of selecting a crystalline excipient having its origin from the vegetable kingdom or being totally synthesized for use as a carrier/diluent in the preparation of pharmaceutical formulations for respiratory administration of micronised drugs by means of an inhaler comprising
- i) selecting an excipient that is a non-ionic compound, giving an iso-osmotic solution to saline when dissolved in water at a concentration of at least 5.5 % (w/v) and ii) being at the most only slightly non-hygroscopic and non-reducing.
- 9. A pharmaceutical formulation for respiratory administration comprising a drug and maltitol excipient.